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Data sheet 6DL1155-6AU00-0PM0



SIMATIC ET 200SP HA, PROFINET interface module IM155-6 PN max. 56 I/O modules, multi-hot swap, without server module

General information	
Product type designation	IM 155-6 PN
HW functional status	FS04
Vendor identification (VendorID)	02AH
Device identifier (DeviceID)	030FH
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V20
● STEP 7 configurable/integrated from version	V5.7.3
● PCS 7 configurable/integrated from version	V10.0 SP1
● PCS neo can be configured/integrated from version	V6.0
Configuration control	
via dataset	No
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	10 ms
Input current	
Current consumption, max.	700 mA; +19.2 V to +28.8 V DC
Inrush current, max.	5 A
I^2t	0.36 $A^2 \cdot s$; Due to increased mains buffering of 10 ms
Power	
Infeed power to the backplane bus	7.5 W; no doubling in redundant mode as the infeed power is also designed as redundant
Power loss	
Power loss, typ.	2.4 W
Address area	
Address space per module	
● Address space per module, max.	256 byte
Address space per station	
● Address space per station, max.	1 440 byte; 1 440 bytes R1 and S1 without CiR, otherwise 1 000 bytes
Hardware configuration	
Integrated power supply	Yes; 24 V DC
Rack	

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● Modules per rack, max.	56; 56 slots for I/O modules + server module (width without IM ≤ 1.3 m)
Time stamping	
Accuracy	1 ms; In compliance with the supplementary conditions described in the Equipment Manual
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
● Number of ports	2; via BusAdapter
● integrated switch	Yes
● BusAdapter (PROFINET)	Yes
Protocols	
● PROFINET IO Device	Yes
● Open IE communication	Yes
● Media redundancy	Yes; as MRP client
Interface types	
RJ 45 (Ethernet)	
● Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
● 100 Mbps	Yes
● Autonegotiation	Yes
● Autocrossing	Yes
Protocols	
Supports protocol for PROFINET IO	Yes
Redundancy mode	
● PROFINET system redundancy (S2)	Yes; S2, R1
Media redundancy	
— MRP	Yes
Open IE communication	
● TCP/IP	Yes
● SNMP	Yes
● LLDP	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
● RUN LED	Yes; green LED
● ERROR LED	Yes; red LED
● MAINT LED	Yes; Yellow LED
● ACT LED	Yes; green LED
● Monitoring of the supply voltage (PWR-LED)	Yes; green LED
● Connection display LINK TX/RX	Yes; 2x green link LEDs on BusAdapter
Potential separation	
between PROFINET and all other circuits	Yes; 1 500 V AC
between supply and all other circuits	Yes; Type tested with 1 500 V DC
Permissible potential difference	
between different circuits	Safety extra low voltage SELV
Isolation	
Isolation tested with	1 500 V DC/1 min, type test
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-40 °C
● horizontal installation, max.	70 °C
● vertical installation, min.	-40 °C
● vertical installation, max.	60 °C
Dimensions	
Width	50 mm
Height	138 mm
Depth	89 mm

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Weights

Weight, approx.	192 g; without BusAdapter

Classifications

	Version	Classification
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604

Approvals / Certificates

General Product Approval

CE EG-Konf. | Miscellaneous | UKCA | China RoHS | UL | KC

General Product Approval | For use in hazardous locations

RCM | EAC | IECEx | Declaration of Conformity | CCC | UL

For use in hazardous locations | Maritime application

ATEX | IECEx | Miscellaneous | ABS | Bureau Veritas | DNV

Maritime application | Environment

LRS | NK / Nippon Kaiji Kyokai | RINA | CCS (China Classification Society) | Siemens EcoTech | EPD

Industrial Communication

PROFINET

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